

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
24 August 2006 (24.08.2006)

PCT

(10) International Publication Number
WO 2006/088743 A3

(51) International Patent Classification:
E21B 43/10 (2006.01) *E21B 4/18* (2006.01)
E21B 47/00 (2006.01) *E21B 47/10* (2006.01)

(74) Agents: HAYNES AND BOONE, LLP et al.; 901 Main Street, Suite 3100, Dallas, Texas 75202 (US).

(21) International Application Number:
PCT/US2006/004809

(22) International Filing Date: 9 February 2006 (09.02.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/652,564 14 February 2005 (14.02.2005) US

(71) Applicant (for all designated States except US): ENVEN-
TURE GLOBAL TECHNOLOGY, L.L.C. [US/US];
15995 North Barkers Landing, Suite 350, Houston, Texas
77079 (US).

(72) Inventor; and

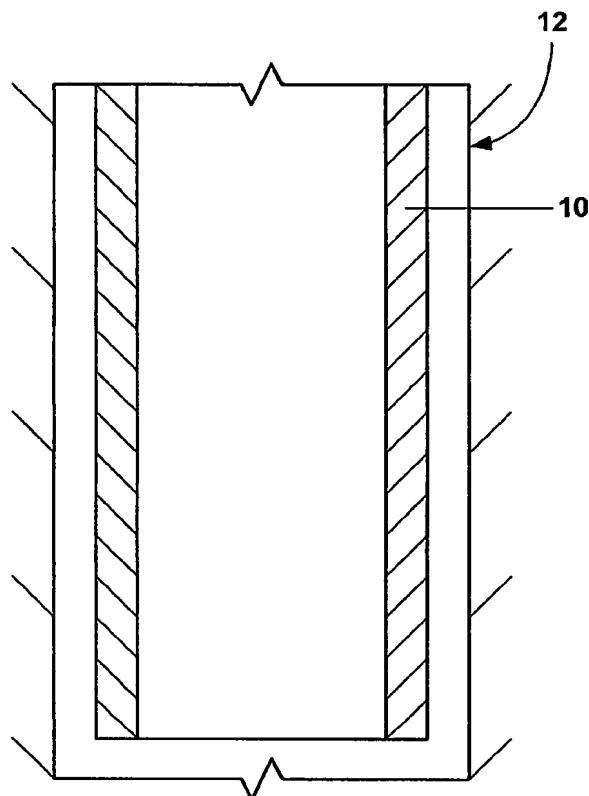
(75) Inventor/Applicant (for US only): COSTA, Scott
[US/US]; 2011 Willow Point, Kingwood, Texas 77330
(US).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV,
LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI,
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG,
SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US,
UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT,
RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA,
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: RADIAL EXPANSION OF A WELLBORE CASING AGAINST A FORMATION



(57) Abstract: Radial expansion of a wellbore casing against a formation.

WO 2006/088743 A3



Declaration under Rule 4.17:

— *of inventorship (Rule 4.17(iv))*

(88) Date of publication of the international search report:

19 October 2006

Published:

— *with international search report*

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/04809

A. CLASSIFICATION OF SUBJECT MATTER

IPC: E21B 43/10(2006.01),47/00(2006.01)
E21B 4/18(2006.01),47/10(2006.01)

USPC: 166/381,384,207,212

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 166/381,384,207,212,250.08,243

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EAST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,348,095 A (Worrall et al) 20 September 1994 (20.09.1994), see entire document.	1 and 15
X	US 5,031,699 A (Artynov et al.) 16 July 1991 (16.07.1991), see entire document.	1, 4-7, 15 and 18-21
X	US 4,976,322 A (Abdrakhmanov et al.) 11 December 1990 (11.12.1991), see column 4, lines 1-8.	1, 4-7, 15 and 18-21

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

19 June 2006 (19.06.2006)

Date of mailing of the international search report

29 AUG 2006

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
Facsimile No. (571) 273-3201

Authorized officer

David J Bagnell

Telephone No. 571-272-3600